

002260" 47229960

FIG. 1

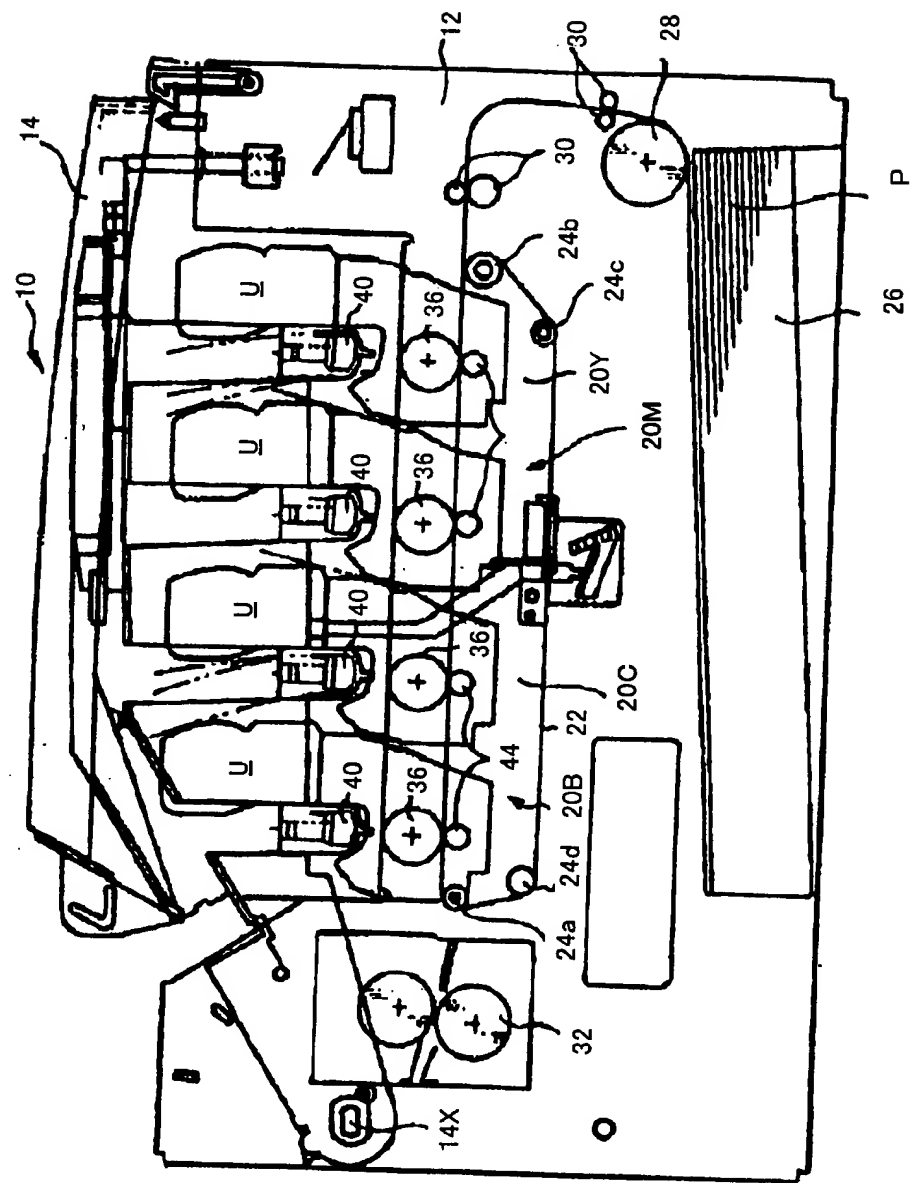


FIG. 2

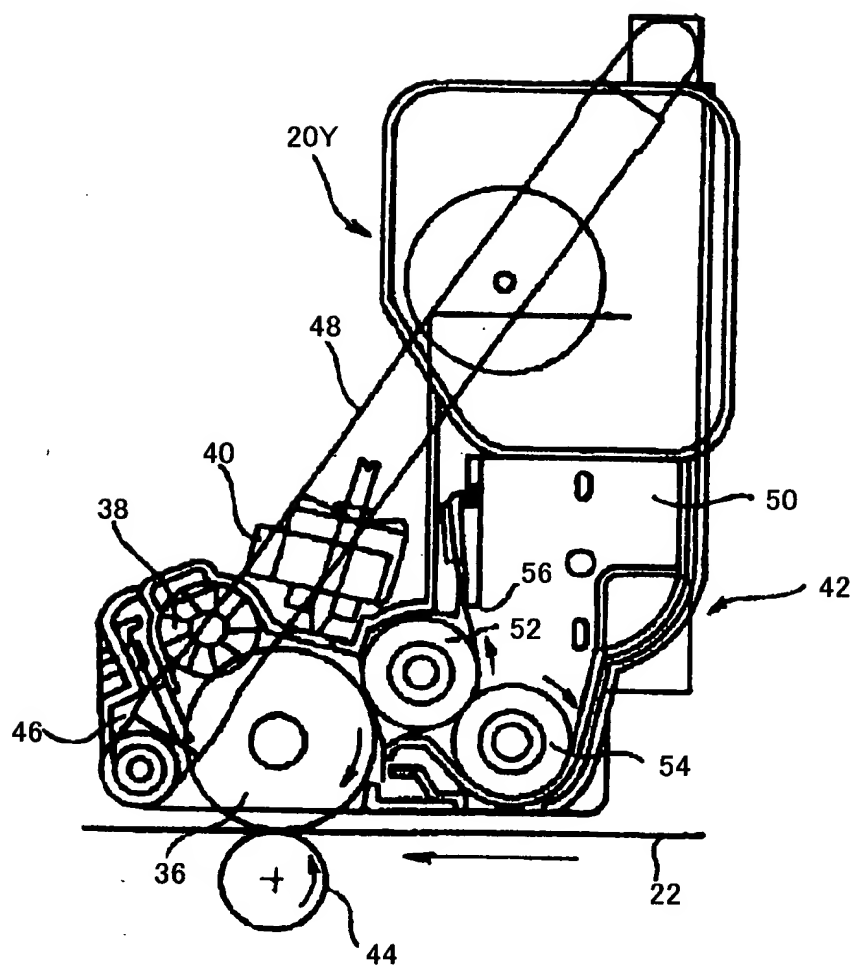
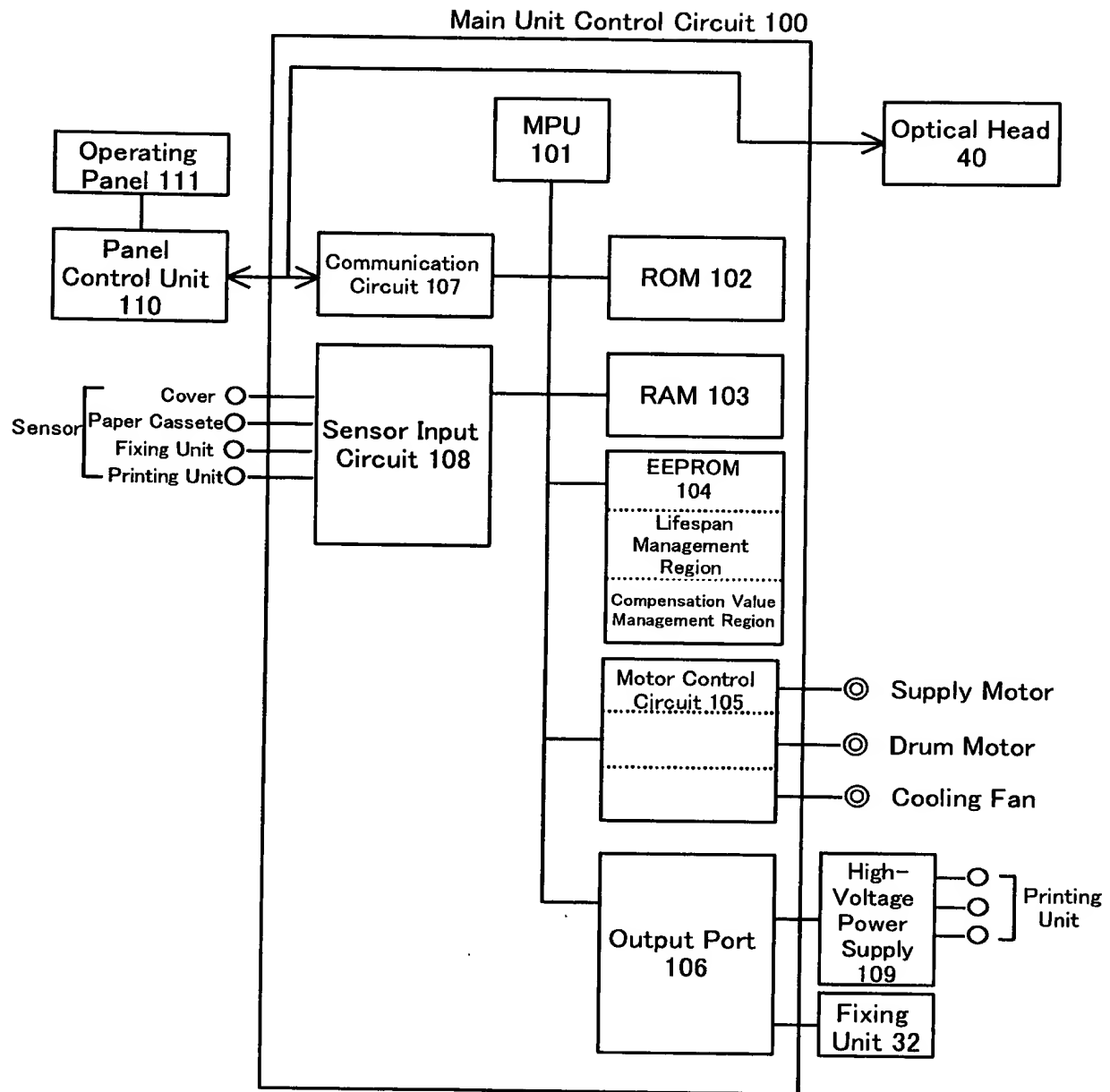


FIG. 3



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Initial ($0 \times M + 0$)

	Value
Total Print Number Count (Upper) 1	<u>0</u>
Total Print Number Count (Upper) 2	0
Total Print Number Count (Upper) 3	0
Total Print Number Count (Lower) 0	0
Total Print Number Count (Lower) 1	0
:	
Total Print Number Count (Lower) N	0

FIG. 4A

After Printing One Copy ($0 \times M + 1$)

	Value
Total Print Number Count (Upper) 1	<u>0</u>
Total Print Number Count (Upper) 2	0
Total Print Number Count (Upper) 3	0
Total Print Number Count (Lower) 0	1
Total Print Number Count (Lower) 1	0
:	
Total Print Number Count (Lower) N	0

FIG. 4B

After Printing M-1 Copies ($0 \times M + (M-1)$)

	Value
Total Print Number Count (Upper) 1	<u>0</u>
Total Print Number Count (Upper) 2	0
Total Print Number Count (Upper) 3	0
Total Print Number Count (Lower) 0	<u>M-1</u>
Total Print Number Count (Lower) 1	0
:	
Total Print Number Count (Lower) N	0

FIG. 4C

After Printing M Copies ($1 \times M + 0$)

	Value
Total Print Number Count (Upper) 1	<u>1</u>
Total Print Number Count (Upper) 2	1
Total Print Number Count (Upper) 3	1
Total Print Number Count (Lower) 0	0
Total Print Number Count (Lower) 1	<u>0</u>
:	
Total Print Number Count (Lower) N	0

FIG. 4D

After Printing $N \times M - 1$ Copies

	Value
Total Print Number Count (Upper) 1	<u>N-1</u>
Total Print Number Count (Upper) 2	N-1
Total Print Number Count (Upper) 3	N-1
Total Print Number Count (Lower) 0	0
Total Print Number Count (Lower) 1	0
:	
Total Print Number Count (Lower) N	<u>M-1</u>

FIG. 4E

After Printing $N \times M$ Copies

	Value
Total Print Number Count (Upper) 1	<u>N</u>
Total Print Number Count (Upper) 2	N
Total Print Number Count (Upper) 3	N
Total Print Number Count (Lower) 0	<u>0</u>
Total Print Number Count (Lower) 1	0
:	
Total Print Number Count (Lower) N	0

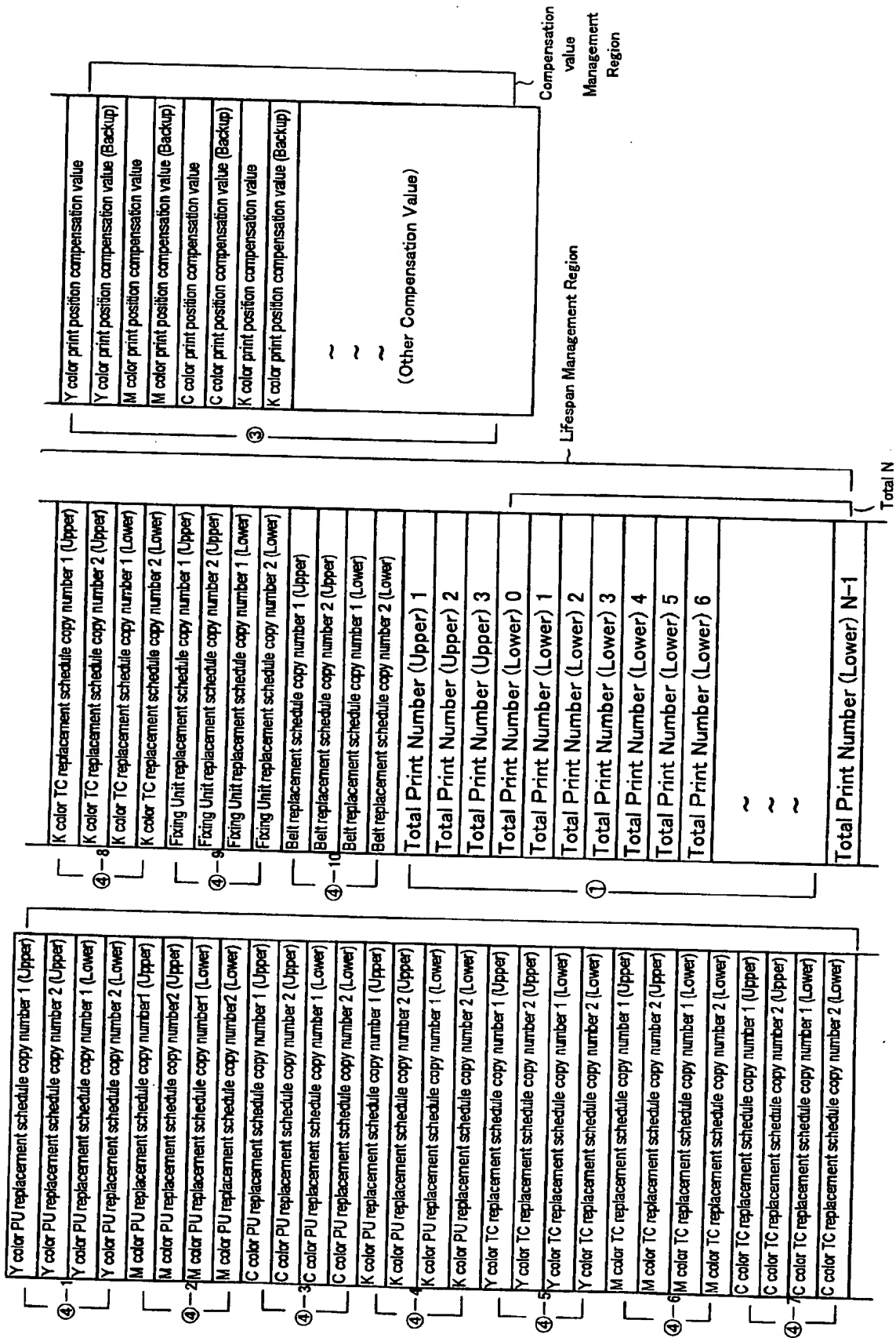
FIG. 4F

FIG. 5

Print Number	Total Print Number Counter (Lower)							
	0	1	2	3	4	5	~	N-1
$M \times 0 \sim M \times 1 - 1$	○							
$M \times 1 \sim M \times 2 - 1$		○						
$M \times 2 \sim M \times 3 - 1$			○					
$M \times 3 \sim M \times 4 - 1$				○				
$M \times 4 \sim M \times 5 - 1$					○			
$M \times 5 \sim M \times 6 - 1$						○		
~							~	
$M \times (N-1) \sim M \times N - 1$								○
$M \times N \sim M \times (N+1) - 1$	○							
$M \times (N+1) \sim M \times (N+2) - 1$		○						
$M \times (N+2) \sim M \times (N+3) - 1$			○					
$M \times (N+3) \sim M \times (N+4) - 1$				○				
$M \times (N+4) \sim M \times (N+5) - 1$					○			
$M \times (N+5) \sim M \times (N+6) - 1$						○		
~							~	
$M \times (N+N-1) \sim M \times (N+N) - 1$								○
$M \times (N+N) \sim M \times (N+N+1) - 1$	○							

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FIG. 6



EEPROM (Initial)

	Value
Total Print Number Count 1	0
Total Print Number Count 2	0
TC Replacement Schedule Copy Number 1	Y
TC Replacement Schedule Copy Number 2	Y
PU Replacement Schedule Copy Number 1	Z
PU Replacement Schedule Copy Number 2	Z

FIG. 7A

EEPROM (After Printing One Copy)

	Value
Total Print Number Count 1	1
Total Print Number Count 2	1
TC Replacement Schedule Copy Number 1	Y
TC Replacement Schedule Copy Number 2	Y
PU Replacement Schedule Copy Number 1	Z
PU Replacement Schedule Copy Number 2	Z

FIG. 7B

EEPROM (After Printing X Copies)

	Value
Total Print Number Count 1	X
Total Print Number Count 2	X
TC Replacement Schedule Copy Number 1	Y
TC Replacement Schedule Copy Number 2	Y
PU Replacement Schedule Copy Number 1	Z
PU Replacement Schedule Copy Number 2	Z

FIG. 7C

EEPROM (After Printing Y Copies)

	Value
Total Print Number Count 1	Y
Total Print Number Count 2	Y
TC Replacement Schedule Copy Number 1	Y
TC Replacement Schedule Copy Number 2	Y
PU Replacement Schedule Copy Number 1	Z
PU Replacement Schedule Copy Number 2	Z

FIG. 7D

EEPROM (After Replacing TC)

	Value
Total Print Number Count 1	$Y + \alpha$
Total Print Number Count 2	$Y + \alpha$
TC Replacement Schedule Copy Number 1	$Y + \alpha + Y$
TC Replacement Schedule Copy Number 2	$Y + \alpha + Y$
PU Replacement Schedule Copy Number 1	Z
PU Replacement Schedule Copy Number 2	Z

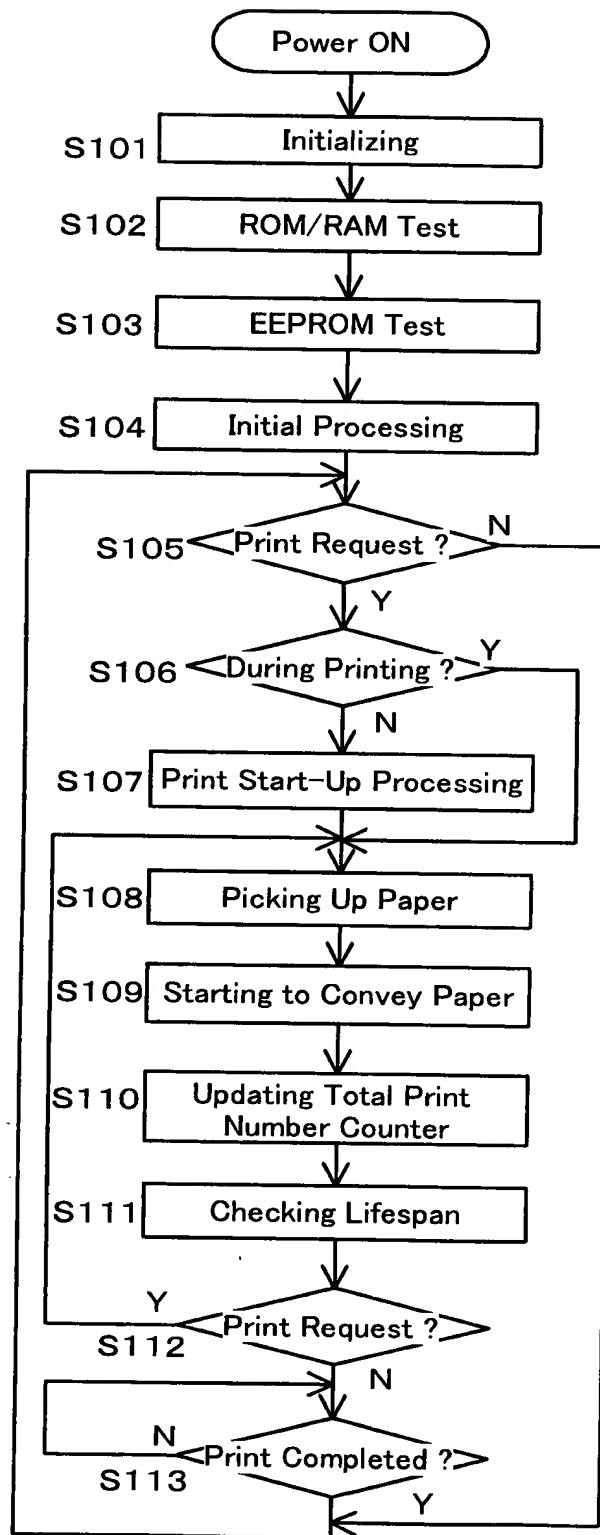
FIG. 7E

EEPROM (After Printing M Copies and Replacing PU)

	Value
Total Print Number Count 1	$Z + \beta$
Total Print Number Count 2	$Z + \beta$
TC Replacement Schedule Copy Number 1	$Y + \alpha + Y$
TC Replacement Schedule Copy Number 2	$Y + \alpha + Y$
PU Replacement Schedule Copy Number 1	$Z + \beta + Z$
PU Replacement Schedule Copy Number 2	$Z + \beta + Z$

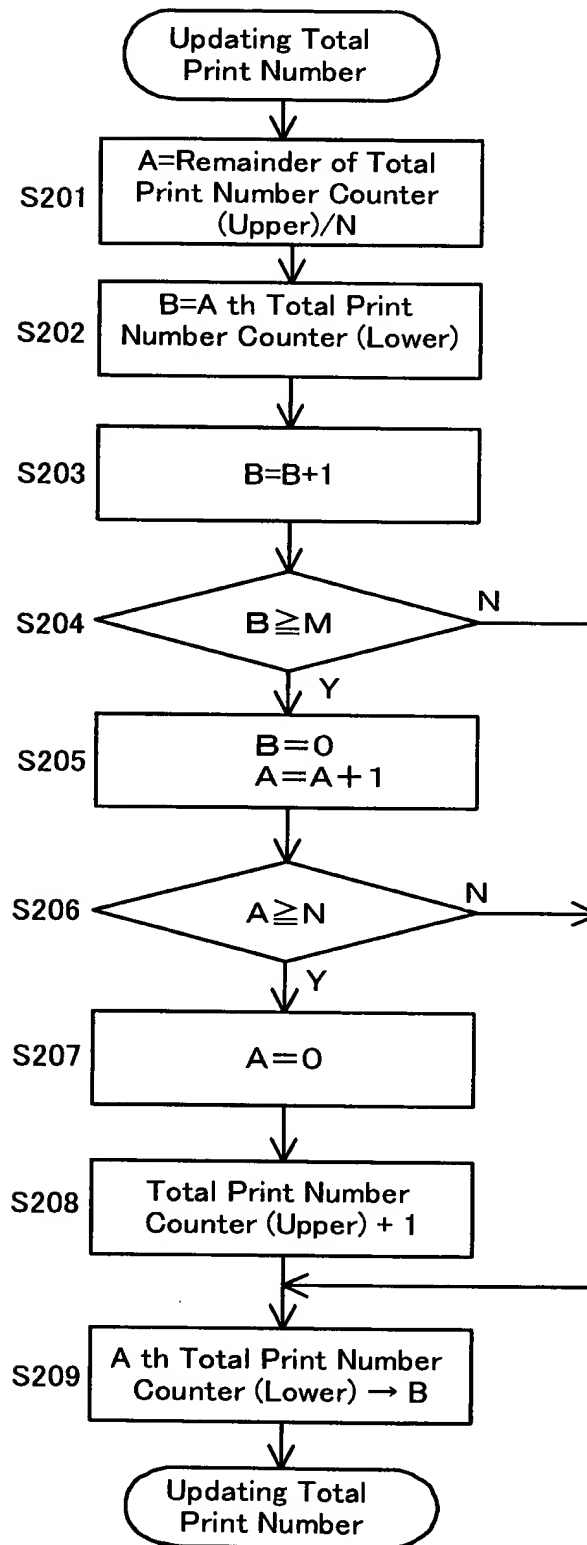
FIG. 7F

FIG. 8



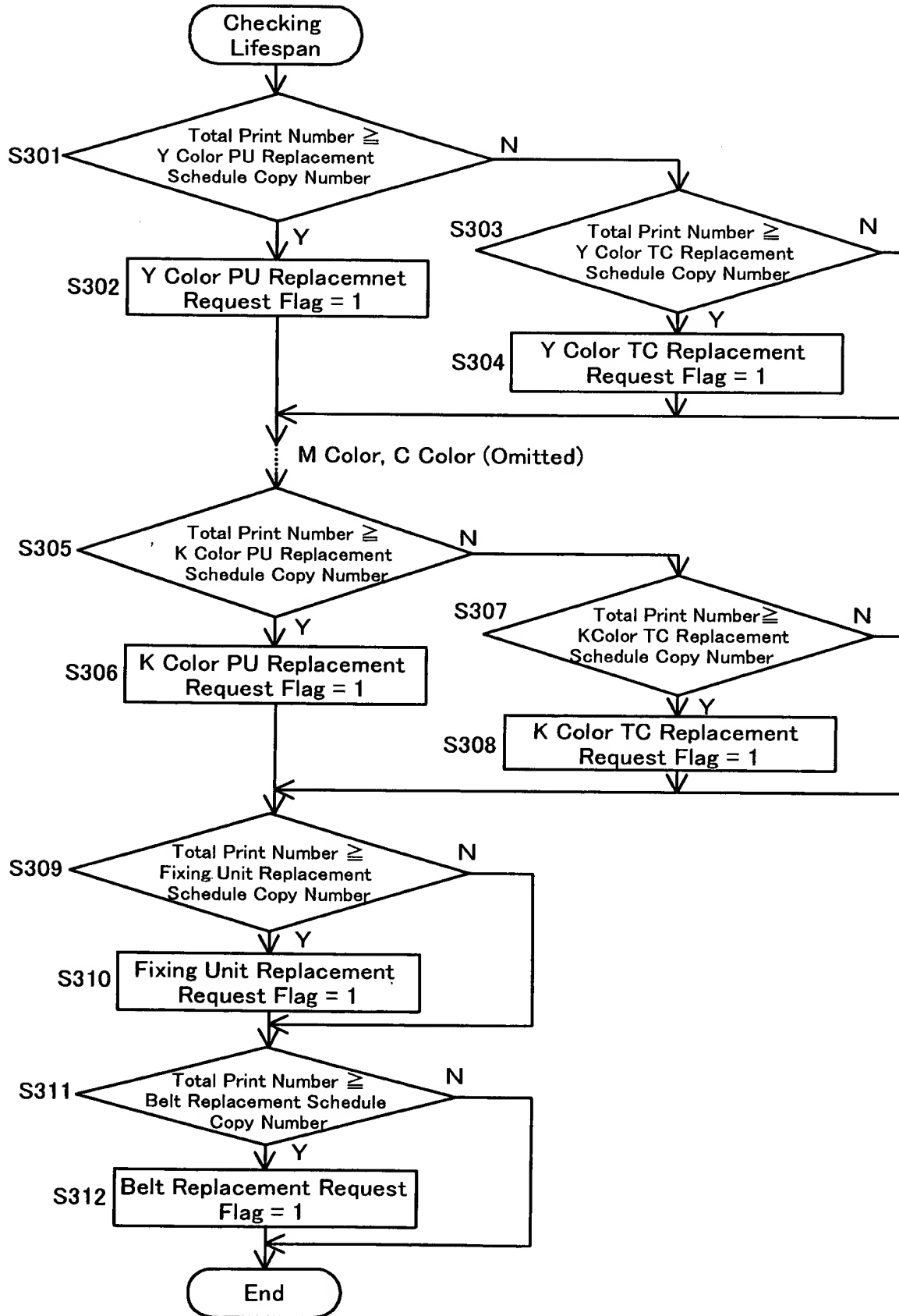
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FIG. 9



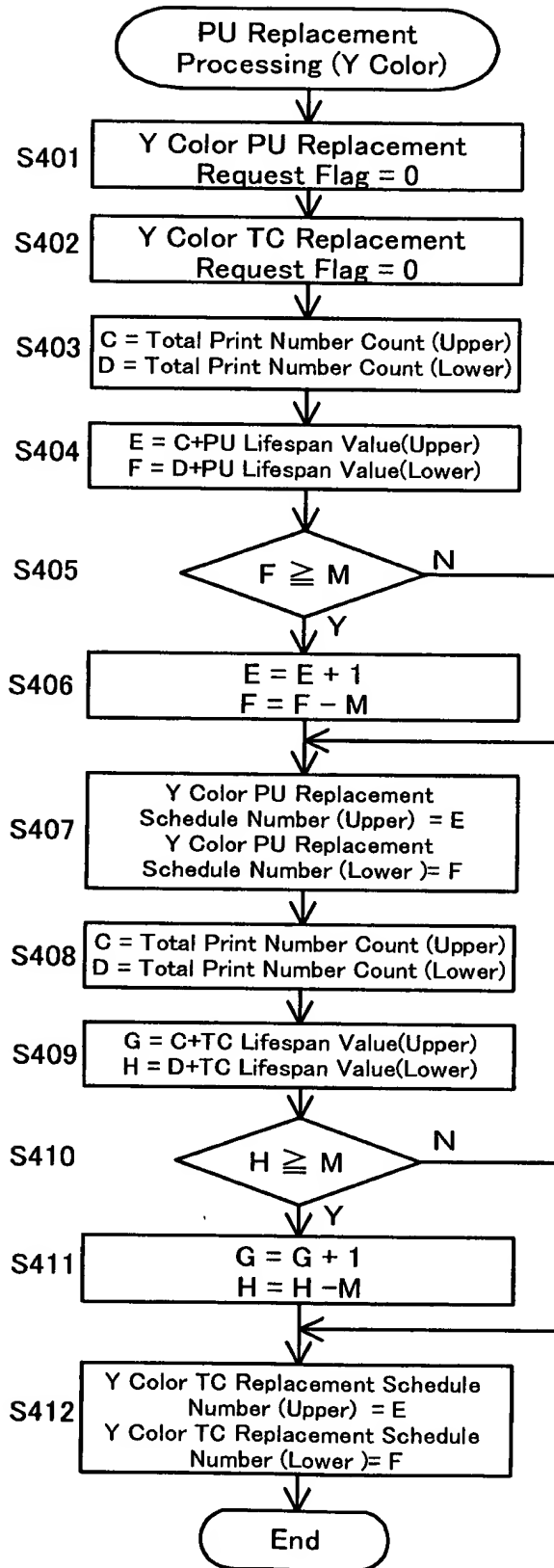
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FIG. 10



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FIG. 11



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FIG. 12

